

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) ~~Optical~~ An optical disc drive apparatus, comprising a laser device for generating a light beam for optically reading data from a disc, said laser device being incorporated in an LC oscillator circuit, with a parasitic capacitance of said laser resonating with an inductor to form a resonant LC circuit of said LC oscillator circuit, so that electrical energy can be exchanged in a resonant manner between the inductor and the parasitic capacitance back and forth.

2. (Currently Amended) ~~Optical~~ The optical disc drive apparatus according to claim 1, wherein said LC oscillator circuit comprises a current path in which said laser device and an ~~inductance, preferably implemented as a coil,~~ inductance are coupled in a series arrangement.

3. (Currently Amended) ~~Optical~~ The optical disc drive apparatus according to claim 1, wherein said LC oscillator circuit comprises at least one capacitance coupled in series with said laser device and said inductance.

4. (Currently Amended) ~~Laser~~ A laser driver circuit for driving a semiconductor laser, having a first output terminal and a second output terminal for connection to ~~the~~ an anode terminal and ~~the~~ a cathode terminal, respectively, of a laser to be driven;

the laser driver circuit comprising an inductance having at least one terminal coupled to at least one of said output terminals, and a parasitic capacitance of said laser resonating with said inductance to form a resonant LC circuit of an LC oscillator circuit, so that electrical energy can be exchanged in a resonant manner between the inductor and the parasitic capacitance back and forth.

5. (Currently Amended) ~~Laser~~ The laser driver circuit according to claim 4, further comprising at least one capacitance coupled between said inductance and said first or second output

terminal, respectively.

6. (Currently Amended) ~~Laser~~ The laser driver circuit according to claim 4, wherein said inductance has one terminal coupled to said first output terminal and has another terminal coupled to said second output terminal.

7. (Currently Amended) ~~Laser~~ The laser driver circuit according to claim 4, further comprising a ~~one-way conductor diode~~ coupled between one of said output terminals and a voltage reference, ~~said one-way conductor preferably comprising a diode.~~

8. (Currently Amended) ~~Laser~~ The laser driver circuit according to claim 7, wherein said ~~one-way conductor diode~~ comprises a controllable switch controlled by a signal derived from a voltage occurring at a location in a current path defined by said inductance and said output terminals, said location ~~preferably~~ corresponding to one terminal or a tap of said inductance.

9. (Currently Amended) ~~Laser~~ The laser driver circuit according to claim 4, further comprising an inverter coupled in

parallel to said inductance.

10. (Currently Amended) ~~Laser~~ The laser driver circuit according to claim 4, comprising an output stage implemented as an oscillator, for instance a Pierce oscillator, a Colpitts oscillator, a Hartley oscillator, coupled to at least one of said output terminals.

11. (Currently Amended) ~~Light~~ A light beam generating device, comprising a semiconductor laser driven by a laser driver circuit according to claim 4.

12. (Currently Amended) ~~Optical~~ An optical disc drive apparatus, comprising a laser driver circuit according to claim 4.

13. (New) The optical disc drive apparatus of claim 1, wherein the inductor and capacitor are connected in parallel.

14. (New) The laser driver circuit of claim 4, wherein the inductor and capacitor are connected in parallel.

15.(New) The laser driver circuit of claim 4, further comprising:

a first capacitor connected between a first terminal of the inductor and the anode terminal; and

a second capacitor connected between a second terminal of the inductor and the cathode terminal.

16.(New) The laser driver circuit of claim 15, further comprising a switch connected between the anode terminal and a reference voltage source.

17.(New) The laser driver circuit of claim 16, wherein the switch is a bootstrap diode.

18.(New) The laser driver circuit of claim 16, wherein the switch is a transistor.